AMENDMENTS TO THE CLAIMS

IN THE CLAIMS

1. (currently amended) A composition of hydrocarbon fuel, in the low vapor pressure range to very low vapor pressure range, and carbon dioxide ~~(CO2)~~ (CO_2) wherein the concentration of ~~(CO2)~~ (CO_2) within the fuel is sufficient in volume to achieve a substantial reduction in exhaust soot particulate when the fuel is consumed by engine combustion.

2. (Cancelled)

3. (currently amended) The composition of claim 1 ~~and 2~~ wherein said ~~CO2~~ CO_2 is mixed under normal temperature and pressure within said fuel and the ~~CO2~~ CO_2 does not react chemically with the fuel.

4. (currently amended) The composition of claim 1 ~~and 2~~ wherein the combination of said fuel and said ~~CO2~~ CO_2 is employed to improve fuel economy.

5. (currently amended) The composition of claim 4 wherein the combination of said fuel and said ~~CO2~~ CO_2 is employed to provide a net reduction in ~~CO2~~ CO_2 production in engine exhaust.

6. (currently amended) The composition of claim 1 ~~and 2~~ wherein the combination of said fuel and said ~~CO2~~ CO_2 is employed to provide a net fuel cost savings.

7. (currently amended) The composition of claim 1 ~~and 2~~ wherein the combination

of said fuel and said ~~CO2~~ CO_2 is employed to reduce fuel viscosity without entering into a chemical reaction.

8. (currently amended) A composition of: liquid hydrocarbon fuel, in the low vapor pressure to very low vapor pressure range, and carbon dioxide ~~CO2~~ CO_2 wherein the concentration of ~~CO2~~ CO_2 within the fuel is less than 1 atmosphere of pressure and sufficient in volume to provide a substantial supply of inert gas for use in fuel tank ullage inerting purposes and the ~~CO2~~ CO_2 does not react chemically with the fuel.

9. (currently amended) The composition of claim 8 wherein: hydrocarbon fuel is in the low vapor pressure to very low vapor pressure range, and uses a commercial grade of recycled carbon dioxide ~~CO2~~ CO_2 wherein the concentration of ~~CO2~~ CO_2 within the fuel is sufficient in volume to provide a substantial supply of inert gas for use in fuel tank ullage inerting purposes.

10. (currently amended) The composition of claim 8 wherein the combination of enhanced fuel by the added ~~CO2~~ CO_2 provides an improved fuel fire safety factor when said enhanced fuel is transferred and stored.

11. (currently amended) The composition of claim 8 within fuel tanks wherein the combination of said fuel and said ~~CO2~~ CO_2 acts as a self-inerting fuel.

12. (currently amended) The composition of claim 8 wherein the combination of said fuel with said ~~CO2~~ CO_2 provides that said fuel acts as a 'weightless container' for transferring and storing substantial volumes of ~~CO2~~ CO_2 without additional containment vessels.

13. (currently amended) The composition of claim 8 wherein the combination of said fuel containing said ~~CO2~~ CO_2 wherein that concentration of ~~CO2~~ CO_2 in the fuel may be extracted from the fuel by mechanical means.

14. (currently amended) The composition of claim 8 wherein the combination of said fuel and said ~~CO2~~ CO_2 is transferable and storable in, existing closed fuel distribution systems and fuel delivery equipment such as those used at airports and other re-fueling terminals.

15. (currently amended) The composition of claim 8 wherein the combination of said fuel and said ~~CO2~~ CO_2 provides a new means for safely extending Jet-A fuel supplies by mixing in percentages of JP-4 or naphtha into ~~CO2~~ CO_2 enriched Jet-A.

16. (currently amended) The composition of claim 8 wherein the combination of said fuel receiving said ~~CO2~~ CO_2 provides substantial fuel de-oxygenation during the ~~CO2~~ CO_2 mixing process.